

SOLAR CELL WITH AN ELECTRICALLY INSULATING
LAYER UNDER THE BUSBAR

ABSTRACT OF THE DISCLOSURE

5 A solar cell includes a photovoltaic energy source, a frontside array of
metallic gridlines deposited upon a front face of the photovoltaic energy source,
and a busbar structure in electrical continuity with the frontside array of metallic
gridlines. The busbar structure has an electrical insulator layer overlying and
contacting the front face of the photovoltaic energy source, and a metallic busbar
layer overlying and contacting the electrical insulator layer. The metallic busbar
10 layer is in electrical continuity with the frontside array of metallic gridlines. The
solar cell is preferably a concentrator solar cell.